# Shipping Transaction Processing

## "MY" Mismatch Logic Resolution

TRW

April 2002

# *Shipping Transaction Processing*

- Background
  - Track DMISA assets to and from the Repair Facility
  - Assets outlined in each transaction appears on a Line Item of some DMISA during a particular fiscal year
  - IMACS attempts to **post** transaction by searching for Special Shipping Instructions

# *Transaction Processing in IMACS*

- Transaction Processing
  - Filter the Transaction Mismatch table and retrieve all unprocessed (Mismatch Type of “IB”) transactions
  - Edit Check
  - Logical Check
  - Post if both types of checks are validated

# *Transaction Processing in IMACS*

- Edit Check
  - To RIC (TR)
  - NSN (NN)
    - FSC
    - NIIN
  - Unit of Issue (UI)
  - Transaction Quantity (BQ)

# *Transaction Processing in IMACS*

- Edit Check (cont'd)
  - Document Number (SD)
    - Source DODAAC
    - Julian Date
    - Serial Number
  - Supplementary DODAAC (SP)
  - Required Delivery Date (DT)
    - Material Redistribution (A2)
    - Material Release Order - MRO - (A5)

# *Transaction Processing in IMACS*

- Edit Check (cont'd)
  - Unit Price (UP) - Material Release Order
  - Transaction Date (DT)
    - Material Redistribution (A2)
    - Material Shipment Status (AR)
    - Material Receipt (D6)
  - Material Redistribution, Release Order, Receipt
    - From RIC (FR)
    - Ownership Code (OC)
    - Condition Code (CC)

# *Transaction Processing in IMACS*

- Logical Check
  - Document Number, Suffix, and NSN (DN)
  - Material Shipment Status (AR0)
    - Material Release Order Search
    - Ownership Code (OC)
    - Condition Code (CC)

# *Transaction Processing in IMACS*

- Logical Check (cont'd)
  - Line Item
    - Transaction NSN
    - Transaction Ownership Code
    - Serviceable Assets
      - Determine Status of DMISA
      - Potential Line Item candidates are searched in Ascending FY order. **(**** REMOVED ****)**
      - Serviceable transactions are compared to TOTAL ASSETS SHIPPED

# *Transaction Processing in IMACS*

- Logical Check (cont'd)
  - Line Item (cont'd)
    - Serviceable Assets (cont'd)
      - *Determine FY of TED **(** MY LOGIC **)***
        - *Transaction entering IMACS after 30 SEP will have a FY of Year of TED + 1 year. EX: IMACS will evaluate a TED of 1 OCT 01 to FY 02. (Per 18 APR 02 Meet-Me-Call)*
        - *Otherwise the Year in the TED is the FY. EX: IMACS will evaluate a TED of 30 JUL 01 to FY 01. (Per 18 APR 02 Meet-Me-Call)*

# *Transaction Processing in IMACS*

- Logical Check (cont'd)
  - Line Item (cont'd)
    - Serviceable Assets (cont'd) *** **"MY LOGIC** ***
      - *Determine DMISA FY search range (Major Asset)*
        - *FY will serve as the Beginning FY of the search range*
        - *Subtract 24 months from TED. (Para. 6.A.Exhibit I of MY Logic doc.)*

# *Transaction Processing in IMACS*

- Logical Check (cont'd)
  - Line Item (cont'd)
    - Serviceable Assets (cont'd) *** **"MY LOGIC ***
      - *Determine DMISA FY search range (Minor Asset)*
        - *FY will serve as the Beginning FY of the search range*
        - *TED beyond 31 DEC will assume a FY equal to the TED (Para. 6.B. of MY Logic doc.)*
        - *TED between 1 OCT and 31 DEC will assume FY equal to TED FY minus 1 year (Para. 6.A.Exhibit II of MY Logic doc.)*

# *Transaction Processing in IMACS*

- Logical Check
  - Line Item
    - Unserviceable Assets
      - Determine status of line item's DMISA
      - Potential Line Item candidates are searched in Descending FY order. ****** REMOVED ******
      - *Determine FY of TED* ***(** MY LOGIC **)***
        - *Transaction entering IMACS after 30 SEP will have a FY of Year of TED + 1 year. EX: IMACS will evaluate a TED of 1 OCT 01 to FY 02.*
        - *Otherwise the Year in the TED is the FY. EX: IMACS will evaluate a TED of 30 JUL 01 to FY 01.*

# Transaction Processing in IMACS

- Logical Checks (cont'd)
  - Line Item (cont'd)
    - Determine if the DMISA and/or Fiscal Year have changed
    - Get Line Item Requirements
      - The Line Item is disqualified as a candidate if there are no requirements scheduled.
    - Completed Assets
      - Candidate Line Item requirements are compared to TOTAL ASSETS PRODUCED

# *Transaction Processing in IMACS*

- Logical Checks (cont'd)
  - Line Item (cont'd)
    - Completed Assets (cont'd)
      - The Line Item is disqualified as a candidate if assets produced fulfill requirements.
    - Special Shipping Instructions
      - The Line Item is disqualified as a candidate if there are no Special Shipping Instructions (Exhibit XIII - Part I).

# *Transaction Processing in IMACS*

- Logical Checks (cont'd)
  - Search Results
    - No Line Item found
      - "MY" Mismatch
        - Possibly no requirements, fulfilled requirements, no shipping instructions of 1 or more Line Items across multiple DMISAs and/or Fiscal Years
      - "ML" Mismatch
        - Possibly no requirements, fulfilled requirements, no shipping instructions of 1 or more Line Items within the same DMISA/FY

# *Transaction Processing in IMACS*

- Logical Check (cont'd)
  - Search Results
    - No Line Item Found (cont'd)
      - "NL" Mismatch
        - Possibly no requirements, fulfilled requirements, no shipping instruction for a Line Item.
    - Line Item Found
      - Associates Transaction & Line Item
      - Updates Transaction

# *Transaction Processing in IMACS*

- Logical Check (cont'd)
  - Material Shipment Status (AR0)
    - Material Release Order Search
    - Ownership Code (OC)
    - Condition Code (CC)

# *Transaction Processing in IMACS*

- Post Transaction
  - DMISA Line Item
  - Special Shipping Instruction
  - Transaction
  - Source and Supplemental DODAACs
  - Ownership Code
  - To/From RICs
  - NSN
  - Condition Code
  - Organization
  - Legacy System

# *IMACS On-Line Processing*

- Transaction available for on-line processing after initial nightly run
- Edit Checks
- Logic Checks
- Posts